

C++ Tango 2021

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Outline

- ▶ Kernel webinar
- ▶ Latest release
- ▶ Plans for the next release
- ▶ Questions

Tango Kernel Webinar

- ▶ Goal: Get more people onboard for hacking on the core
- ▶ Format: 90 minutes online meeting
- ▶ Frequency: Once a month
- ▶ Persistence: Will be recorded and posted on youtube
- ▶ First already happened on 3rd Nov 2020¹
- ▶ All of Tango: cppTango, JTango, pyTango

¹<https://youtu.be/iIzP4jaQrzw>

9.3.4

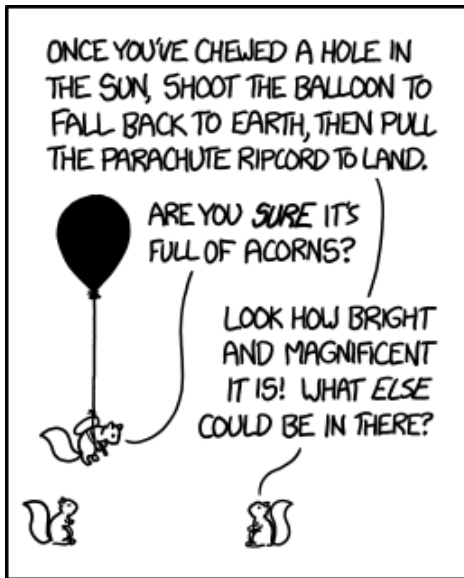
- ▶ Released on 15th Sep 2020^{2,3}
- ▶ Fully ABI and API compatible with previous 9.3.x cppTango releases
- ▶ Tries to be boring and stable
- ▶ Will have more incarnations⁴

²<https://github.com/tango-controls/cppTango/releases/tag/9.3.4>

³<https://github.com/tango-controls/TangoSourceDistribution/releases/tag/9.3.4>

⁴9.3.5: <https://github.com/tango-controls/TangoSourceDistribution/issues/92>

Next release: What we want to avoid



9.4

- ▶ Evolutionary step towards tango without CORBA
- ▶ Not ABI compatible with 9.3.x
- ▶ Documented API will be fully compatible
- ▶ Overhaul to get ready for the future and remove technical debt
- ▶ First release candidate by 1st July 2021

Security

- ▶ Remove legacy C code (strcat, strcpy, ...)
- ▶ sonarcloud goals⁵:
 - ▶ Security Level A
 - ▶ Reliability Level B
- ▶ CI jobs with clang-tidy, sanitizers⁶ and valgrind⁷
- ▶ Warning free compilation on Windows⁸

⁵Issue: 756

⁶Issue: 797

⁷Issue: 795

⁸Issue: 769

Decruft

- ▶ Merge log4tango into cppTango and clean it⁹
- ▶ Remove autotools and switch to cmake¹⁰
- ▶ Enforce consistent code formatting¹¹
- ▶ Replace internal jpeg implementation¹²
- ▶ Make it compatible with C++17 and C++20¹³
- ▶ Split headers into private and public ones¹⁴

⁹Issue: 712,713,728,765,793

¹⁰Issue: 22

¹¹Issue: 586

¹²Issue: 617

¹³Issue: 680,714,786

¹⁴Issue: 735

Dependencies

- ▶ Newer cppzmq¹⁵
- ▶ Support omniORB 4.3 in addition to earlier versions¹⁶

¹⁵Issue: 609

¹⁶Issue: 760

Questions

